

In the Specification:

[0162] Additional experiments were done to determine the effects of IGF-I plasmid mediated supplementation using a construct that stimulates the secretion of the transgene product into the general circulation on ~~MyoD~~ myogenin expression after a nerve injury. The sciatic nerve of ICR-I female mice was crushed mid thigh. Afterwards, 120 µg of pSP-IGF-I-GH3'UTR (pAV2002 - SEQID No.: 2) , diluted in distilled water was injected in the tibialis anterior in a volume of 30 µl. The muscle was then electroporated at 220V/cm, 20 msec, and 3 pulses, positive and reverse polarity, each. In control mice, 30 µl of distilled water was injected into injured muscle and electroporated as above. After 3 days, the muscle of IGF-I and water-injected mice was analyzed with CELISA. The results shown in Figure 6 indicate that IGF-I plasmid mediated supplementation using a construct that stimulates the secretion of the transgene product into the general circulation does not affect myogenin expression in the treated muscle.